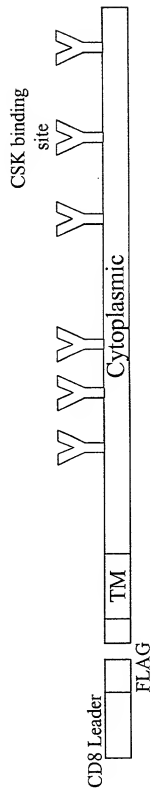


PAG



Y = site for tyrosine phosphorylation

C-TERM	Construct name:
POSITION	
-3-2-1 0	
— (ITRL) —	WT
— (IARA) —	C-ARA
— (I) —	ΔPL

Fig. 1

Enhanced inhibition of NFAT by PAG with mutation of its PDZ-binding motif

FIG. 2 A.

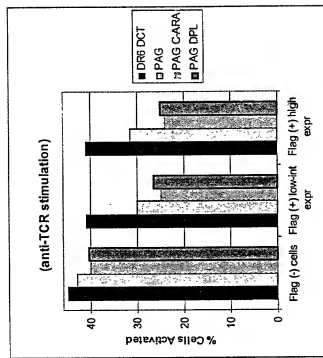
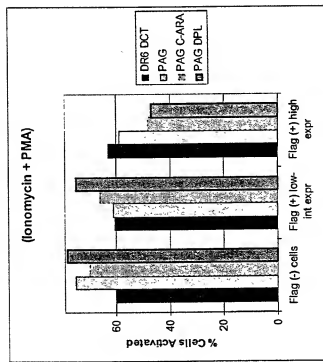
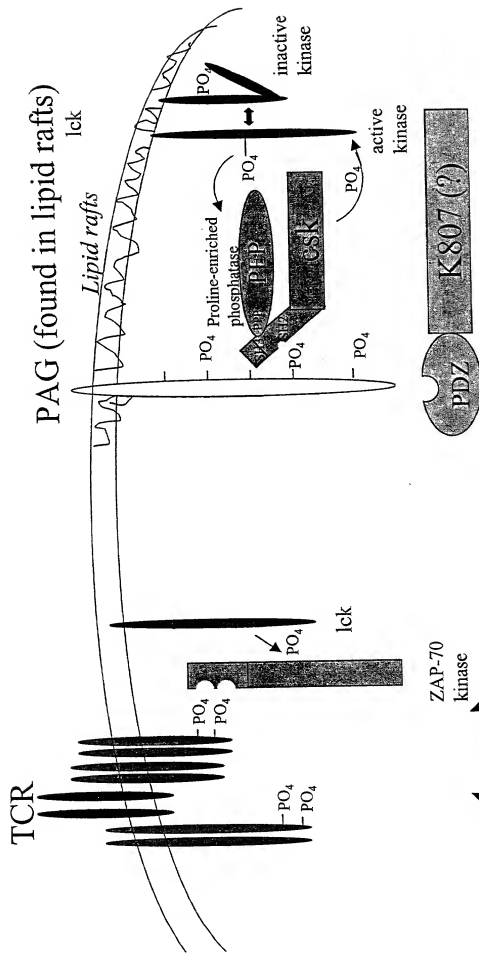


FIG. 2 B.

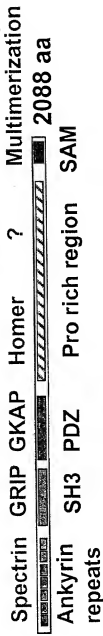




Signal transduction

Fig. 3

A. Shank 1



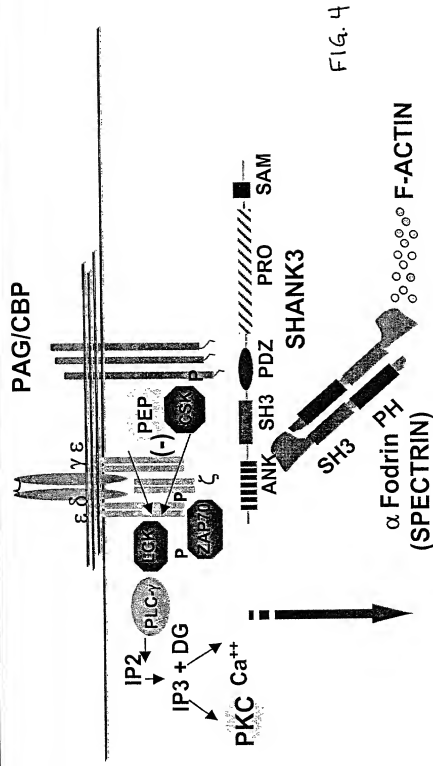
Shank 2



Shank 3



B.



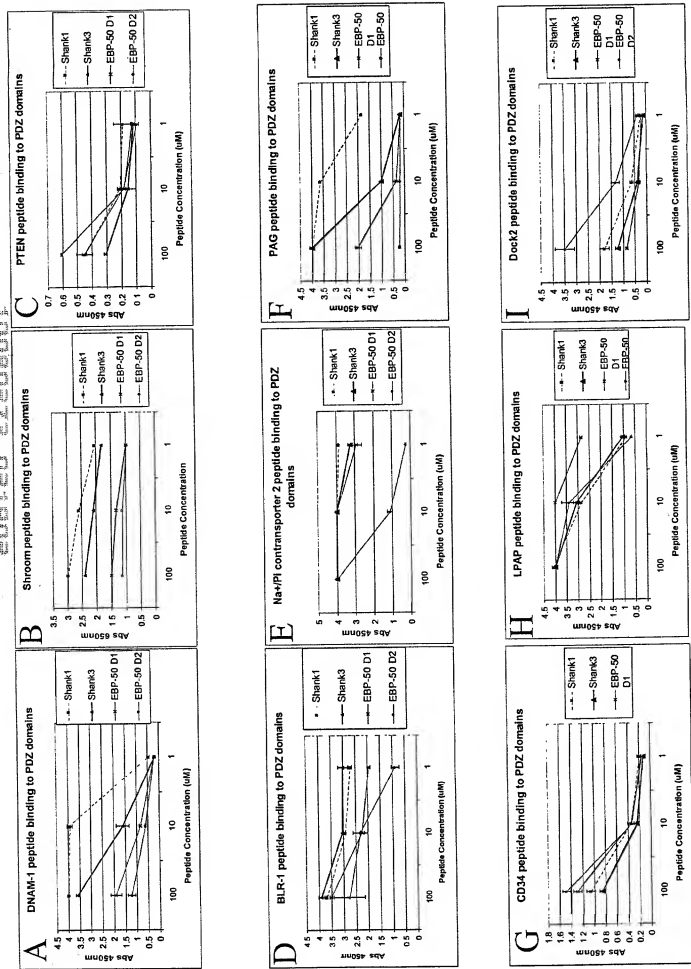
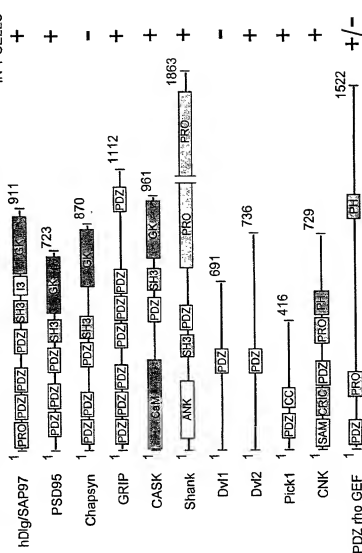


Figure 5

A.

PROTEINS CONTAINING PDZ DOMAINS



B.

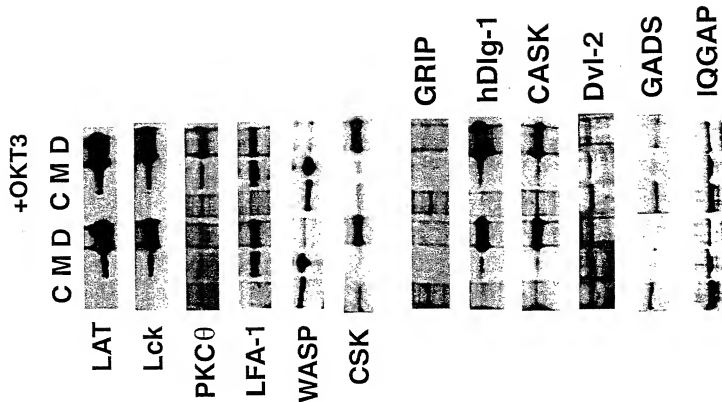
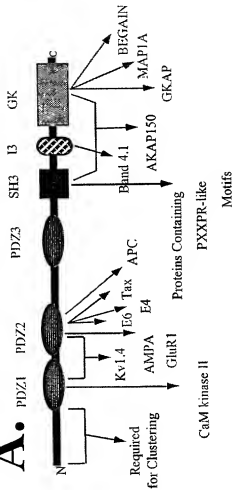


Fig. 6

Discs Large

A.



C.

OKT3

Lys Total Cyt Mem



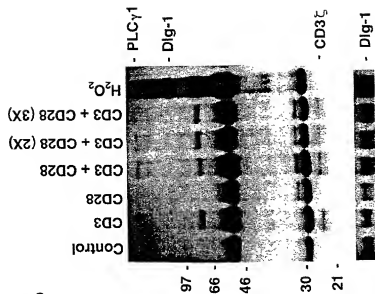
hDlg-1 ip / Actin blot

FIG. 7

B.



D.



10080271-0319001
200120-2228001

NGK PDZ1-3 NPDZ1-3 SH3IGK hDlg1 ΔPDZ1-3

**Bound
Cbl**

**Multiple
Domains of
Dlg are
Required for
Interaction
with Cbl**

**hDlg
fusions**

**Total
Cbl**

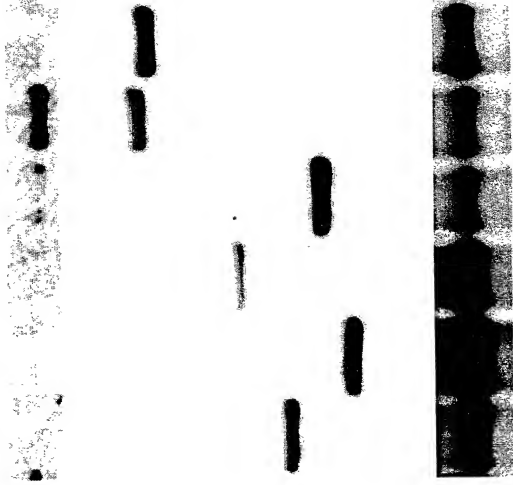
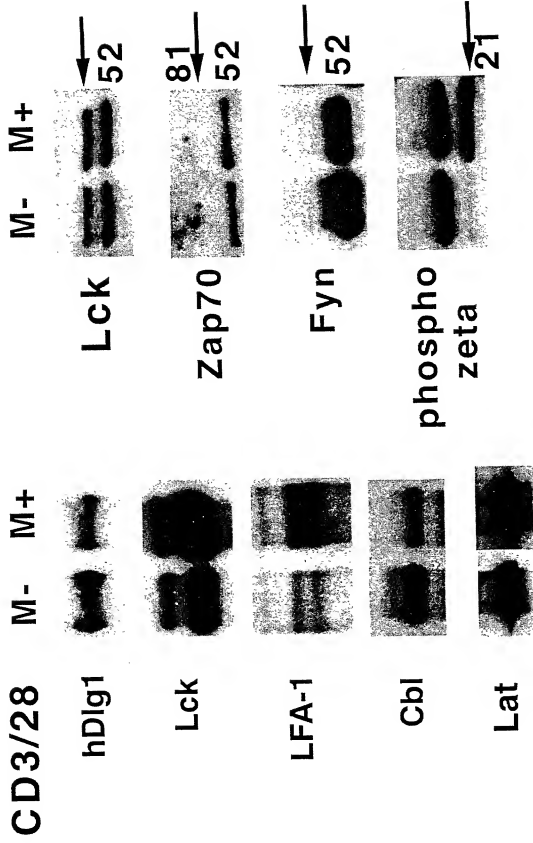


FIG. 8

Many Important Signaling and Adhesion Molecules Bind Dlg in T cells



Ip: Dlg; Blot: Abs Indicated

FIG. 9

Discs Large Interaction Partners

Discs Large



	<u>Lck</u>	<u>Fyn</u>	<u>Zap70</u>	<u>CD3ζ</u>	<u>LAT</u>	<u>SLP76</u>	<u>Cbl</u>	<u>Vav</u>	<u>cdc42</u>
Dlg	+	-	-	+	+	-	+	-	-

	<u>14-3-3</u>	<u>GADS</u>	<u>Tpl2</u>	<u>CaMKII</u>	<u>LFA-1</u>	<u>$\beta 3$ int</u>	<u>VLA2-α</u>	<u>CASK</u>
Dlg	-	-	-	+	+	-	-	+

FIG. 10

Gross Mapping of Interactions

Lck CD3 LAT Cbl









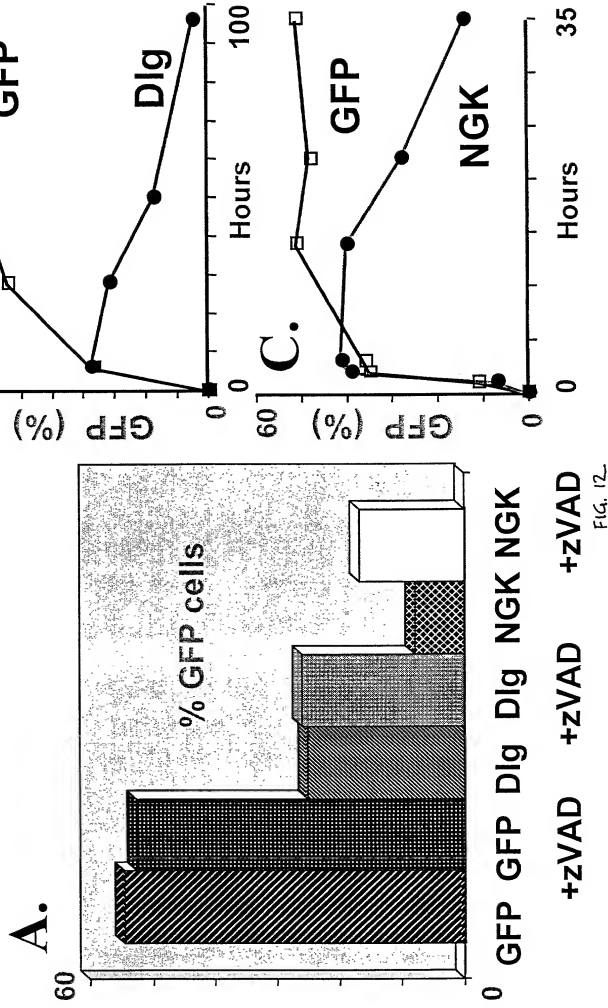
Dlg		+	+	+	++
GFP		-	-	-	-
NGK		+	+	-	-
GK		-	-	-	-
Dlg(1-218)		+		+/-	
NPDZ1-3		+			-
PDZ1-3		-	-	-	-
SH3I3GK		-			+

Fig. 11

Discs Large Induces Cell Death



Anatomy of the Death Response

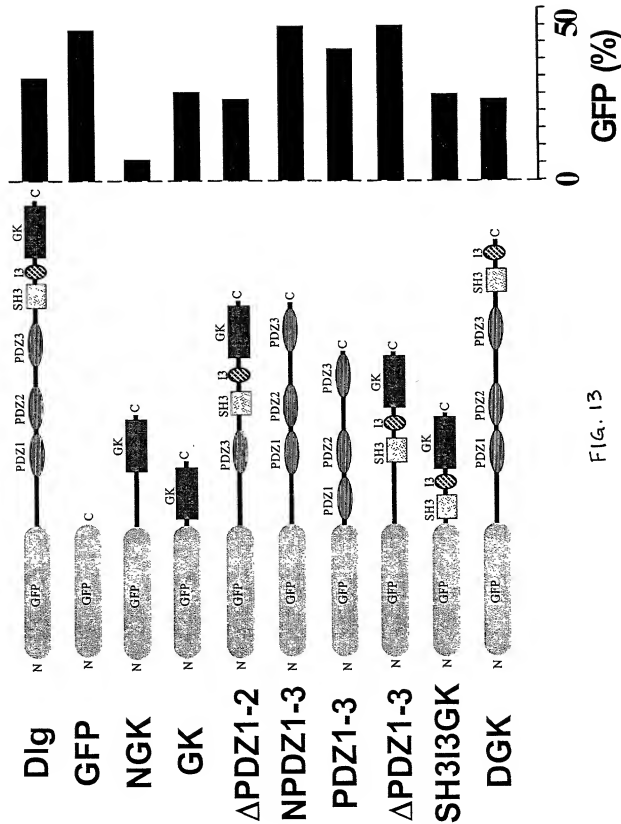
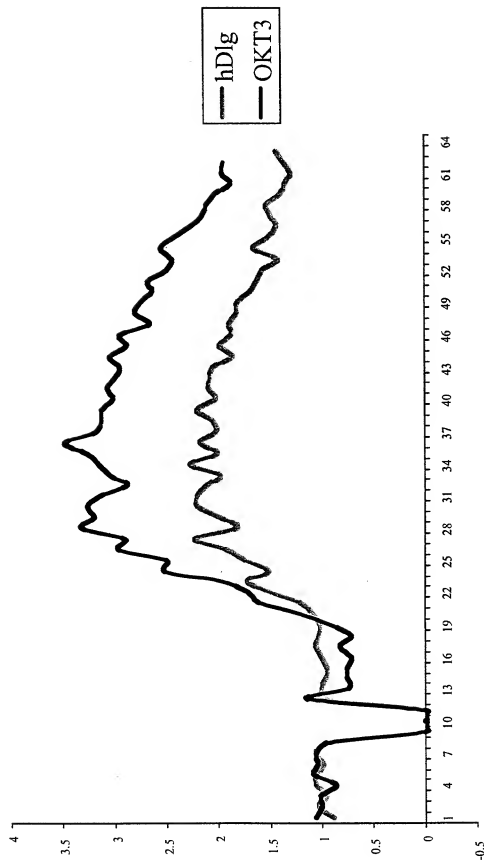


Fig. 13

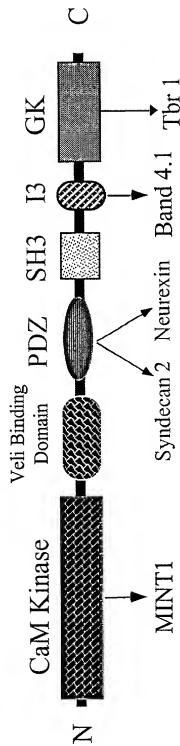
hDlg Attenuates Ca^{++} Mobilization



Time in Seconds / 8

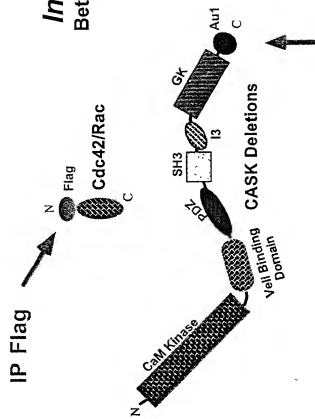
FIG. 14

A. CASK Domain Structure



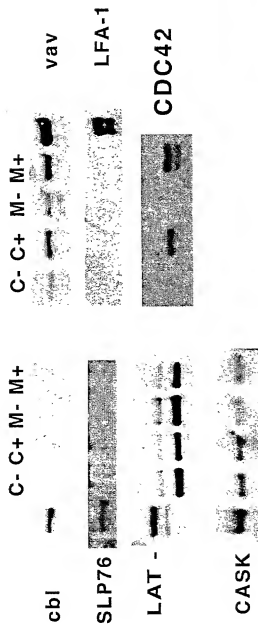
B.

In vivo Association Studies Between Cdc42/Rac and CASK Deletions



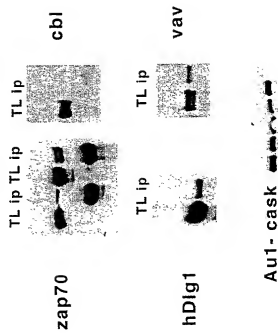
CASK interactions in Jurkat cells

A.



CASK interactions in 293T cells

B.



Activation-Dependent Association of Signaling Molecules with CASK

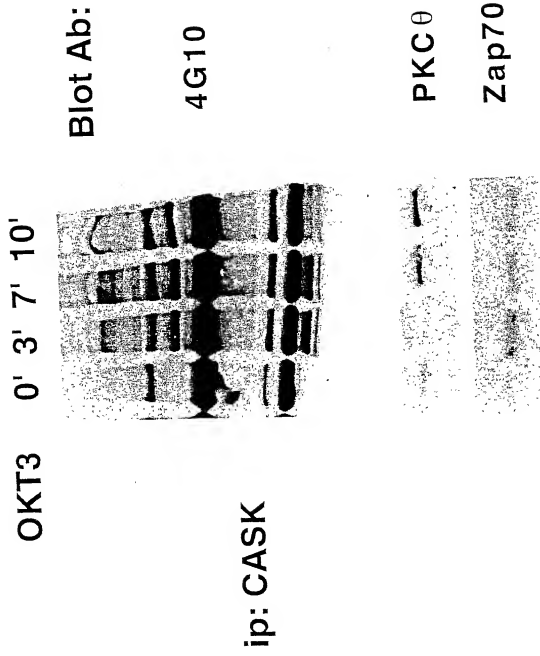


FIG. 17

IP: Cdc42

Blot: CASK Deletions

1-909 1-600 1-509 1-337 1-909 321-909 481-909 581-909 691-909 DD2 DD3 DD4

Blot:
CASK

Expression
Control:
CASK
Cdc42

FIG. 19

Cdc42 RacG12V RacT17N



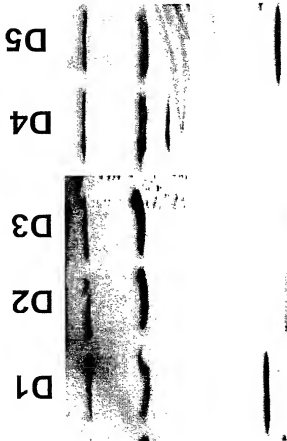
A.



-	-	-	-
-	-	-	-
-	-	-	-
+	+	+	+
-	-	-	-



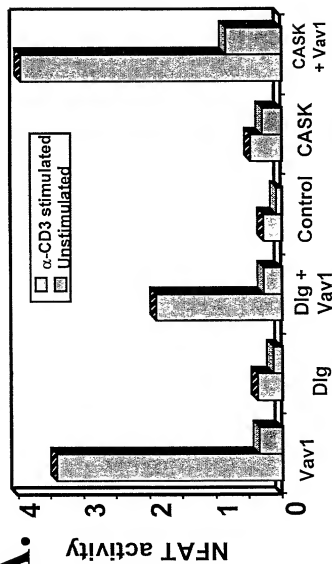
B.



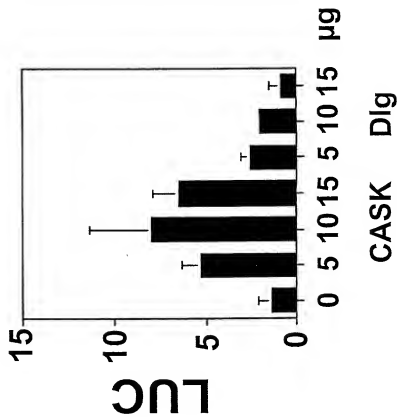
IP: RacG12V
Blot: CASK Domains

Opposite Actions of CASK and Dlg on NFAT

A.



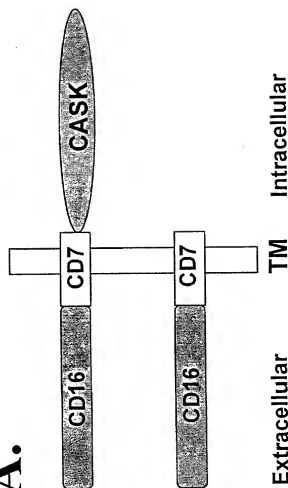
NF-κB Induction
in Jurkat Cells



B.

FIG. 21

A.

16:7-CASK Ca⁺⁺ Mobilization

B.

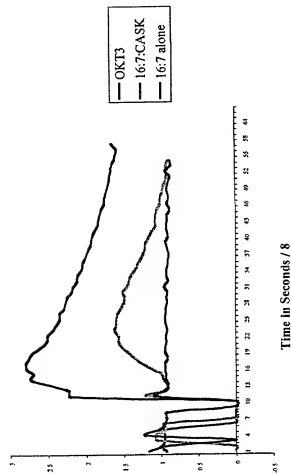


Fig. 22

Dlg and CASK Binding Patterns

Discs Large



		<u>Zap70</u>		<u>SLP76</u>	<u>Vav</u>	<u>cdc42</u>		
		<u>Lck</u>	<u>LAT</u>		<u>Cbl</u>	<u>rac</u>	<u>LFA-1</u>	
Dlg	+	-	+	-	+	-	+	
	-	+	-	-	-	+	-	

CASK

CASK



FIG. 23